

KS3 Mathematics is devised according to the OAK Curriculum.  
KS4 Mathematics is devised according to the AQA curriculum.

| Year | Focus                                                                                                                                                                                                                         | Autumn 1                                                                                                                                                                                                                                                  | Autumn 2                                                                                                                                                             | Spring 1                                                                                                                                                                                                                                                                            | Spring 2                                                                                                                                                                        | Summer 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Summer 2                                                                                                                                                                      |
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| 7    | Develop foundational knowledge of place value, number lines, addition and subtraction, multiplication and division, Powers, Roots, Primes, negative numbers, fractions, and percentages. Practice estimating and calculating. | <b>Place Value &amp; Number System</b> Develop knowledge of and ability to expand numbers, order integers, compare decimals, multiply and divide by positive and negative numbers.                                                                        | <b>Addition &amp; Subtraction</b> Understand number bonds, perimeter, angles, mean and range; develop ability to interpret word problems. Begin multiplication work. | <b>Multiplication &amp; Division</b> Understand inverses and how to divide decimals. Understand area & Volume. <b>Power &amp; Roots</b> – understand square & cube roots; and Prime factors.                                                                                        | <b>Order of Operations</b> Understand order of operations with the four rules, including indices, brackets, integers, and decimals. Begin being able to order negative numbers. | <b>Negative Numbers</b> Understand addition, subtraction, multiplication, and division of negative numbers. Begin algebraic thinking by simplifying and solving 'unknown value'.                                                                                                                                                                                                                                                                                                                                    | <b>Fractions &amp; Percentages</b> Know how to multiply and divide fractions. Know how to express one number as a %, increase & decrease. Introduction to using a calculator. |
|      | <b>Assessments:</b>                                                                                                                                                                                                           | GL Progress Test – Maths A                                                                                                                                                                                                                                | Learning Check 1: Summative Assessment 1                                                                                                                             | Learning Check 2: Spring 1 Topics                                                                                                                                                                                                                                                   | Learning Check 3: Spring 2 Topics                                                                                                                                               | Learning Check 4: Summer 1 Topics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | GL Progress Test – Maths B Summative Assessment 2                                                                                                                             |
|      | <b>Extra-Curricular:</b>                                                                                                                                                                                                      | Maths Club – Lunchtime                                                                                                                                                                                                                                    | Maths Club – Lunchtime                                                                                                                                               | Maths Club – Lunchtime                                                                                                                                                                                                                                                              | Maths Club – Lunchtime                                                                                                                                                          | Maths Club – Lunchtime                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Maths Club – Lunchtime                                                                                                                                                        |
|      | <a href="#">Unit: Place value   KS3 Maths   Oak National Academy (thenational.academy)</a>                                                                                                                                    | <a href="#">Unit: Comparing and ordering fractions and decimals (positive and negative)   KS3 Maths   Oak National Academy (thenational.academy)</a><br><a href="#">Unit: Perimeter and area   KS3 Maths   Oak National Academy (thenational.academy)</a> |                                                                                                                                                                      | <a href="#">Unit: Arithmetic procedures with integers and decimals   KS3 Maths   Oak National Academy (thenational.academy)</a><br><a href="#">Lesson: Securing understanding of factors, multiples, squares and cubes   KS3 Maths   Oak National Academy (thenational.academy)</a> |                                                                                                                                                                                 | <ul style="list-style-type: none"> <li><a href="#">Unit: Arithmetic procedures with integers and decimals   KS3 Maths   Oak National Academy (thenational.academy)</a></li> <li><a href="#">Unit: Comparing and ordering fractions and decimals (positive and negative)   KS3 Maths   Oak National Academy (thenational.academy)</a></li> <li><a href="#">Unit: Understanding multiplicative relationships: percentages and proportionality   KS3 Maths   Oak National Academy (thenational.academy)</a></li> </ul> |                                                                                                                                                                               |
| 8    | Expand on foundational knowledge by developing                                                                                                                                                                                | <b>Decimals &amp; Rounding</b>                                                                                                                                                                                                                            | <b>Constructing &amp; Expressions</b>                                                                                                                                | <b>Equations &amp; Reasoning</b>                                                                                                                                                                                                                                                    | <b>Polygons &amp; Data</b>                                                                                                                                                      | <b>Area &amp; Ratio</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>The Cartesian Grid</b>                                                                                                                                                     |

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|   | ability to use a protractor and compass. Know how to manipulate and simplify expressions. Understand linear equations, reasoning, polygons, angles, discrete data & the Cartesian Grid.                   | Develop ability to expand and round decimals as well as multiply and divide decimals. Understand rounding to the nearest, to significant figures and mixed rounding.                                                     | Use a compass to construct triangles, bisecting and perpendicular angles. Know how to add, subtract, multiply & divide expressions.                              | Develop ability to solve multi-step equations with unknowns on both sides. Understand double number lines, ratio tables and inverse proportion.                                                                               | Understand angles in parallel lines. Develop ability to solve geometric problems with equations. Introduce statistics, Pie Charts, Mean, Median, Mode.                                                                                                                                                                                                              | Understand perimeter and area. Develop ability to calculate area of triangles, parallelograms, trapeziums, and polygons. Interpret & simplify ratios.                                         | Understand X and Y axis, including in a quadrant. Understand coordinates and practice plotting and interpreting coordinates, including positive and negative.              |
|   | <b>Assessments:</b>                                                                                                                                                                                       | Learning Check 1: Autumn 1 Topics                                                                                                                                                                                        | Learning Check 2: Summative Assessment 1                                                                                                                         | Learning Check 3: Spring 1 Topics                                                                                                                                                                                             | Learning Check 4: Spring 2 Topics                                                                                                                                                                                                                                                                                                                                   | Learning Check 5: Summer 1 Topics                                                                                                                                                             | GL Progress Test – Maths part 1 & 2 Summative Assessment 2                                                                                                                 |
|   | <b>Extra-Curricular:</b>                                                                                                                                                                                  | Maths Competition                                                                                                                                                                                                        | Maths Competition                                                                                                                                                | Maths Competition                                                                                                                                                                                                             | Maths Competition                                                                                                                                                                                                                                                                                                                                                   | Maths Competition                                                                                                                                                                             | Maths Competition                                                                                                                                                          |
|   | <b>C6</b>                                                                                                                                                                                                 | <a href="#">Unit: Decimals   KS2 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Rounding integers to significant figures   KS3 Maths   Oak National Academy (thenational.academy)</a> | <a href="#">Unit: Constructions   KS3 Maths   Oak National Academy (thenational.academy)</a>                                                                     | <a href="#">Unit: Expressions and equations   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Unit: Direct and indirect proportion   KS3 Maths   Oak National Academy (thenational.academy)</a> | <a href="#">Unit: Angles and parallel lines   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Solving geometric problems using linear equations   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Unit: Percentages and statistics   KS2 Maths   Oak National Academy (thenational.academy)</a> | <a href="#">Unit: Perimeter and area   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Unit: Ratio   KS3 Maths   Oak National Academy (thenational.academy)</a> | <a href="#">Unit: Coordinates   KS3 Maths   Oak National Academy (thenational.academy)</a>                                                                                 |
| 9 | Strengthen foundational knowledge of measuring and construction, polygons and angles, reasoning, and discrete data. Develop knowledge of inequalities, standard form, graphs, congruency, and Pythagoras. | <b>Constructing &amp; Inequalities</b><br>Construct triangles and bisecting angles. Understand Loci and perpendicular. Know how to form and solve inequalities, including compound inequalities.                         | <b>Form, Graphs, Angles</b><br>Calculate with standard form. Understand distance-time & speed-time graphs. Find average speed. Know quadrilaterals and symmetry. | <b>Graphs &amp; Equations</b><br>Practice plotting graphs, including quadratic. Interpret graphs & tables. Know gradient and intercept. Know how to solve simultaneous equations using a graph.                               | <b>Congruence &amp; Similarity</b><br>Know congruency, congruent triangles, tessellation, and column vectors. Know rotational and reflective symmetry; linear & area scale.                                                                                                                                                                                         | <b>Triangles &amp; Reasoning</b><br>Know how to find the shorter side and perimeter. Understand Isosceles. Identify proportions. Explore exchange rates and enlarging shapes.                 | <b>Circles &amp; Data</b><br>Discover Pi, find circumferences and areas. Draw and analyse Pie Charts. Compare data and explore misleading data. Use mean, median and mode. |
|   | <b>Assessments:</b>                                                                                                                                                                                       | Learning Check 1: Autumn 1 Topics                                                                                                                                                                                        | Learning Check 2:                                                                                                                                                | Learning Check 3: Spring 1 Topics                                                                                                                                                                                             | Learning Check 4: Spring 2 Topics                                                                                                                                                                                                                                                                                                                                   | Learning Check 5: Summer 1 Topics                                                                                                                                                             | GL Progress Test –                                                                                                                                                         |

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|    |                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Summative Assessment 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                       | Maths part 1 & 2 Summative Assessment 2                                                                                                                                                                                                                                                                                    |
|    | <b>Extra-Curricular:</b>                                                                                                                                             | Maths Competition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Maths Competition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Maths Competition                                                                                                                                                                                                                                                                                                                           | Maths Competition                                                                                                                                                                                                                                                                                                                                        | Maths Competition                                                                                                                                                                                                                                                                                                                                                     | Maths Competition                                                                                                                                                                                                                                                                                                          |
|    | <b>C6</b>                                                                                                                                                            | <a href="#">Lesson: Constructing triangles   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Perpendicular bisector of a line segment   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Inequalities and substitution (Part 1)   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Forming and solving inequalities (Part 1)   KS3 Maths   Oak National Academy (thenational.academy)</a> | <a href="#">Lesson: Sorting large numbers   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Multiplying and dividing in standard form   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Addition and Subtraction in standard form   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Lines of symmetry   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Comparing quadrilaterals   KS3 Maths   Oak National Academy (thenational.academy)</a> | <a href="#">Lesson: Representing simultaneous equations graphically (Part 1)   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: <math>y = mx + c</math>   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Drawing Quadratics Video – Corbettmaths (corbettmaths.com)</a> | <a href="#">Lesson: Congruence and triangles (Part 1)   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Congruence and triangles (Part 2)   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Translating objects   KS3 Maths   Oak National Academy (thenational.academy)</a> | <a href="#">Lesson: Length of the hypotenuse   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Length of a shorter side   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Multiplicative relationships and direct proportion   KS3 Maths   Oak National Academy (thenational.academy)</a> | <a href="#">Lesson: Circumference of a circle   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Area of a circle   KS3 Maths   Oak National Academy (thenational.academy)</a><br><br><a href="#">Lesson: Comparing data   KS3 Maths   Oak National Academy (thenational.academy)</a> |
| 10 | Become competent in Mathematics necessary for real-life scenarios and the working world, including angles, fractions, decimals, rounding, statistics, and measuring. | Consolidate knowledge and application of angles, diagrams, bearings, factors and multiples, basic algebra, fractions, and linear graphs.                                                                                                                                                                                                                                                                                                                                                                  | Consolidate knowledge and application of decimals, rounding, collecting & representing data, sequencing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Consolidate knowledge and application of percentages, area, perimeter, circumference, and real-life graphs.                                                                                                                                                                                                                                 | Consolidate knowledge and application of ratio, proportion, polygons, equations, indices, and standard form.                                                                                                                                                                                                                                             | Consolidate knowledge and application of probability, transformation, congruence, similarity and 2D & 3D shapes.                                                                                                                                                                                                                                                      | Consolidate knowledge and application of percentages, measures, statistics, constructions and Loci.                                                                                                                                                                                                                        |
|    | <b>Assessments:</b>                                                                                                                                                  | Learning Check 1: Autumn 1 Topics                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Learning Check 2: Autumn 2 Topics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Learning Check 3: Summative Assessment 1                                                                                                                                                                                                                                                                                                    | Learning Check 4: Spring 2 Topics                                                                                                                                                                                                                                                                                                                        | Learning Check 5: Summer 1 Topics                                                                                                                                                                                                                                                                                                                                     | MOCK EXAMS                                                                                                                                                                                                                                                                                                                 |
|    | <b>Extra-Curricular:</b>                                                                                                                                             | Further Maths Club Maths Competitions                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Further Maths Club Maths Competitions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Further Maths Club Maths Competitions                                                                                                                                                                                                                                                                                                       | Further Maths Club Maths Competitions                                                                                                                                                                                                                                                                                                                    | Further Maths Club Maths Competitions                                                                                                                                                                                                                                                                                                                                 | Further Maths Club Maths Competitions                                                                                                                                                                                                                                                                                      |
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| 11 | Confidently know and independently apply knowledge of                                                                                                                | Revise knowledge of and practice application of probability, volume, and                                                                                                                                                                                                                                                                                                                                                                                                                                  | Revise knowledge of and practice application of inequalities, Pythagoras'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Revise knowledge of and practice application of algebra and graphs,                                                                                                                                                                                                                                                                         | Revise knowledge of and practice application of trigonometry, solving                                                                                                                                                                                                                                                                                    | Revise knowledge of and practice application of growth                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                            |

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|  | mathematics for real-life scenarios and the working world. Be mathematically ready for GCSE exams and achieve mathematical success to enter college / Sixth Form.                                                                                | scatter graphs. Expand algebraic knowledge of quadratics and rearranging formulae.                                                                                                                                                                                                                                                                                           | theorem, simultaneous equations, algebra, and graphs. HIGHER tier: further equations.                                                                                                                                                                                                                                                                                        | sketching graphs, direct and inverse proportions. HIGHER tier: trigonometry.                                                                                                                                                                                                                                                                                                                                  | quadratic equations, and quadratic graphs. HIGHER tier: vectors, sines and cosine rules.                                                                                                                                                                                                                                                 | & decay, and vectors. HIGHER tier: gradients, pre-calculus and algebraic fractions. Plus, exam preparation. |  |
|  | <b>Assessments:</b>                                                                                                                                                                                                                              | Learning Check 1: Autumn 1 Topics                                                                                                                                                                                                                                                                                                                                            | MOCK EXAMS                                                                                                                                                                                                                                                                                                                                                                   | Learning Check 2: Spring 1 Topics                                                                                                                                                                                                                                                                                                                                                                             | Learning Check 3: MOCK EXAMS                                                                                                                                                                                                                                                                                                             | GCSE exams begin                                                                                            |  |
|  | <b>Extra-Curricular</b>                                                                                                                                                                                                                          | After School Intervention                                                                                                                                                                                                                                                                                                                                                    | After School Intervention                                                                                                                                                                                                                                                                                                                                                    | After School Intervention                                                                                                                                                                                                                                                                                                                                                                                     | After School Intervention                                                                                                                                                                                                                                                                                                                | After School Intervention                                                                                   |  |
|  | <b>C6:</b><br><a href="#">Unit: Arithmetic procedures: index laws   KS4 Maths   Oak National Academy (thenational.academy)</a><br><a href="#">Unit: Rounding, estimation and bounds   KS4 Maths   Oak National Academy (thenational.academy)</a> | <a href="#">Unit: 2D and 3D shape: compound shapes   KS4 Maths   Oak National Academy (thenational.academy)</a><br><a href="#">Unit: Graphical representations of data: scatter graphs and time series   KS4 Maths   Oak National Academy (thenational.academy)</a><br><a href="#">Unit: Algebraic manipulation   KS4 Maths   Oak National Academy (thenational.academy)</a> | <a href="#">Unit: Simultaneous equations: 2 variables   KS4 Maths   Oak National Academy (thenational.academy)</a><br><a href="#">Unit: Algebraic fractions   KS4 Maths   Oak National Academy (thenational.academy)</a><br><a href="#">Unit: Graphical representations of data: scatter graphs and time series   KS4 Maths   Oak National Academy (thenational.academy)</a> | <a href="#">Unit: Linear graphs   KS4 Maths   Oak National Academy (thenational.academy)</a><br><a href="#">Unit: Non-linear graphs   KS4 Maths   Oak National Academy (thenational.academy)</a><br><a href="#">Trigonometry Introduction Video – Corbettmaths</a><br><a href="#">Trigonometry – Missing sides Video – Corbettmaths</a><br><a href="#">Trigonometry – Missing Angles Video – Corbettmaths</a> | <a href="#">3D Trigonometry Video – Corbettmaths</a><br><a href="#">Unit: Algebraic manipulation   KS4 Maths   Oak National Academy (thenational.academy)</a><br><a href="#">Sine Rule – Missing Sides Video – Corbettmaths</a><br><a href="#">Sine Rule Angles Video – Corbettmaths</a><br><a href="#">Vectors Video – Corbettmaths</a> |                                                                                                             |  |